FOR MYSORE STATE

Rural (C.P.)

(1953) Department.

MS SERIES.

MS
G.O. NO. 1852

Dated 14-7-1953.

passed
for
Superintendent

G.O. at P. 304.

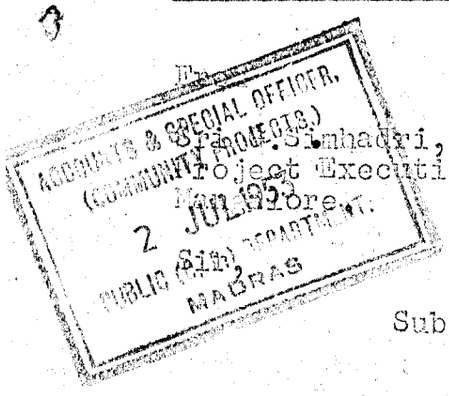
[Despatch Abstract.]

Community projects - South Kanara Area - Block III Communications - construction of a foot bridge at Mastkuru in Belmnow Village - Estimate - Sanctioned.

Ref.C.No.1552/53-B.

Project Executive Office, S.Kanara,
Mangalore, dated 26-6-1953.

3



From

Sri.T.Simhadri, B.A.,
Project Executive Officer,
Mangalore.

To 20766

The Director of Community Projects
and Ex-Officio Secretary to Govt.,
Fort St.George, Madras 9.

.....

Sub: Community Projects - South Kanara - Block III - Communications - Construction of a foot bridge at Madku in Belmon village - Estimate - Sanction - Requested.

*****

I submit herewith an estimate in duplicate with site plan etc. for the construction of a foot bridge at Madku in Belmon village of Karkal Taluk. The particulars required are furnished below:-

1.	Block No.	.....	III
2.	Name of work.	.....	Construction of a foot brid across the Poramboke stream in S.No.21/6 of Belmon village at the locality called Madku.
3.	Whether the work is approved by the Project Advisory Committee and is in the work programme.	.....	Yes.

p.t.o.

4. Cost of work. ..... Rs. 1,250/-

5. Villagers' contribution. ..... 25% of the cost which comes to Rs. 313/-

6. Expenditure to be borne by the Community Project. ..... Rs. 937/-

7. Remarks:-

The proposal is to construct a foot bridge across the Poramboke stream in S.No.21/6 of Belmon village at the locality known as Mudku. The provision made in the estimate has been explained by the Assistant Engineer in his report accompanying the estimate. The proposed work will benefit 200 to 300 persons daily, including a large number of school children, who have to cross the stream to attend the village school. The estimated cost of the work is Rs. 1,250/- The villagers have promised 25% contribution which works out to Rs. 313/- The balance i.e. Rs. 937/- has to be met from the Community Project funds. Necessary provision has been made for the work in the draft programme already submitted to Government. The estimate may be sanctioned for Rs. 937/-

PROJECT EXECUTIVE OFFICER.

Enclosure: Estimate in duplicate.

T/26.6.2016

Pub (Cl. Audit) Dept

(C No 20766/53)

G.O Ms. 1852 dated 14-7-53.

Abstract:- Community Projects- South Kanara Block III Area- Communications- Construction of a foot bridge at Madku in ~~Bel~~ Belmon Village- Estimate Sanctioned-

Read:- From the PEO. Mangalore - rep. C No. 1552/53-B dated 26-6-53

Order:-

Sanction is accorded to an expenditure not exceeding Rs 855/- (Rupees Eight hundred and fifty five only) being three fourths of the estimated cost of Rs 1140/- for the Construction of a foot bridge at Madku in ~~Bel~~ Belmon village of Kankal taluk. The balance of Rs 285/- required to Complete the work should be met by Contribution from the beneficiaries. This Sanction is Counted against the provision in item II A of the Project Estimate approved by the Cl. A in their letter No CPA 33/5/52 dated 21-3-53.

2. The expenditure should be debited to "63 B. Community Development Projects II Community Projects- h. Communications- 4. works".

3. The PEO. Mangalore should get the work executed according to the plan and estimate herewith returned approved and Submit a copy of the Completion report to Govt. in due Course

Sd/- 10-7-53

(By regd. post)
The P.E.O. Mangalore (with enclosures)
The Ag. Madras
The Secy. Cl. A Rashtrapati Bhavan, New Delhi.
The Collector, South Kanara
Sri A. Balakrishnan, BABL, IA&AS. (Ag. Madras)
Pub (Cl. Accts) Dept
Pub (Cl. Tech.) Dept.
SF
Spare

CB. 4 months ✓ entered in C.B. as item No. 147 ✓
Copy sent ~~in~~ SF

Foot Bridge at Madakku Todu.

I Design of a deck plank :-

Clear span 3'6"

dead weight of the plank $\frac{1}{2} \times 1'0'' \times \frac{1}{6} \times 50 = 29$ lbs

Add for kerbs. ——— 6 lbs

35 lbs.

Live Load @ 80 lbs/□'

$3\frac{1}{2} \times 1 \times 80 =$ 280 lbs

Total 315 lbs or 320 lbs.

$w = 150\ bd3/l$

$d3 = \frac{320 \times 3\frac{1}{2} \times 3\frac{1}{2}}{150 \times 12} = 2.2$

$d =$ 1.3" inches ∴ 2" thick nos of planks adopted are quite safe.

Design of Beams

Clear Span 14'0"

dead wt of beams = ~~2 × 14'0 × 9" × 9"~~ $2 \times 14 \times \frac{7}{12} \times \frac{9}{12} \times 50 = 613$ lbs.

decking — $1 \times 14' \times 4\frac{1}{2} \times \frac{1}{6} \times 50 =$ 525 lbs

Add for struts + posts etc ——— 262 lbs

1400

live load @ 80 lbs/□' 3920

$= 14'0'' \times 3\frac{1}{2} \times 80 =$ ———

Total load Coming on one beam 5320

load coming on one beam, $= \frac{5320}{2} = 2660$ lbs

$w = 150\ bd^3/l$

$d3 = \frac{2660 \times 14 \times 14}{150 \times 7} = 49.7$

$d = \sqrt[3]{49.7} = 7.907$" inches ∴ 9" depth of beam adopted are quite safe.

III Abutments—

wt of beam as above 613 lbs.

wt of decking $= 16 \times 4\frac{1}{2} \times \frac{1}{6} \times 50 =$ 600 lbs.

Add for posts & struts = 262 lbs

4480 lbs.

live load $16 \times 3\frac{1}{2} \times 80 =$ ———

Total load 5955 lbs.

Load on each abutment $= 5955/2 = 2977.5$ or 2980 lbs

6

Masonry

$\frac{3\frac{1}{2}+2'0}{2} \times 6'-6'' \times 140$ = B.F. 2980 lbs.

Concrete. $6\frac{1}{2} \times 5\frac{1}{2} \times 1'0'' \times 120$ = 5610 lbs.

Total load 11093 lbs nr

11100 lbs.

Bearing area = $8\frac{1}{2} \times 5\frac{1}{2} = 46.75$ sq ft.

∴ load coming over one sqft.

$= \frac{11100}{46.75} = 243$ lbs. against the bearing capacity of the hard soil $1\frac{1}{2}$ to 2 tons.

R Subbaraya Chetty
Supr. CP. & E
Mangalore
6/3/53

L. A. Gopalan
9/6/53
A.E. C/

Foot Bridge across Nagada Road 7/15

8. Requirement of Cement.

(1) Concrete. $\frac{100}{8} = 12\frac{1}{2}$ Cft.

(2) for Masonry: $34/4 \times 440 = 37.4$ Cft.

Total Cement. 49.9 Cft

or 4 bags.

III holding down bolts 4 Nos

R Shivaraya Chgr

Supvr. CP 86

2/6/13

Mangalore

DETAILED ESTIMATE. 421,104—17-11-52. C.F. 160 (1).

District South Kanara. Taluk Karkal.

Village and Survey Belmale. Date and cost of original construction

Name and number of work Construction of a foot Bridge across Hadaku Todu. Date and cost of last repairs

Details of work.	Number.	Measurement in feet. Length.	Breadth.	Depth.	Area or contents.	Total quantity of each description of work.
Earthwork excavation for foundations in all soils excepting rocks requiring blasting.						
for abutments.	2	8'-6"	5'-6"	a 6'-0	561 cft	
Add extras.					439 cft	
				Total	1000 cft	1000 cft.
Concrete hard broken stone 1½" Size in Cement mortar 1:4:8						
under abutments.	2	8'-6"	5'-6"	1'-0	94	
under wooden beams.	2x2	1'-3"	2'-0"	0'-6"	5	
				Total	99 cft or	100 cft.
Random rubble masonry in CM 1:4.						
abutments.	1x2	6'-6"	$\frac{3'-6"+2'-0"}{2}$	a 9'-0	322	
Steps left side.	1	6'-6"	3'-6"	1'-0	23	
2nd step	1	6'-6"	2'-9"	0'-9"	19	
3rd step	1	6'-6"	2'-0"	0'-7"	10	
4th step	1	6'-6"	1'-9"	0'-5"	9	
5th step	1	6'-6"	1'-0"	0'-9"	5	
6th step	1	6'-6"	1½"	1'-0"	7	
Right side steps -	1	6'-6"	2'-0"	1'-0"	13	
2nd step	1	6'-6"	1'-6"	0'-5"	6	
3rd step	1	6'-6"	1'-0"	0'-9"	5	
4th step	1	6'-6"	1'-0"	1'-0"	7	
					14	
Add extras.					440 cft	
					5 cft	
Deduct for Concrete bench for beams on abutments					435 cft or	440 cft.
Total masonry less deducti						
Counting wood wrought and put up large scantlings						
Beams -	2	16'-0"	0'-7"	0'-5"	14 cft	14 cft.
C.W. small scantlings -		16'-0"	4'-6"	0'-2"	12 cft.	
planks	1	16'-0"	0'-3"	0'-3"	2.00	
Kerbs	2	16'-0"	0'-3"	0'-3"	1.25	
posts	4x2	2'-6"	0'-3"	0'-3"	1.25	
struts	2 old	2'-6"	0'-3"	0'-3"	2.00	

Details of work.	Number.	Measurement in feet. Length.	Breadth.	Depth.	Area or contents.	Total quantity of each description of work.
		B. F.			19.83 Cm.	
Large planks.	2×4	1'0"	1'0"	0'-2"	1.33 Cm.	
					1.84	
Add for extra.					Total 23.00	23.00
Tarring with hot Coal Tar two Coats.						
Decking planks.	1	16'0"	9'-4"		150 Sq ft.	
Kerbs.	1×2	16'0"	1'0"		32	
ports.	2×4	2'-6"	1'0"		20	
Slicks	2×4	2'-6"	1'0"		20	
hand rails	2	16'0"	1'0"		32	
Central rail	2	16'0"	0'10"		27	
Add for extra.					19	
					300 Sq ft	300 Sq ft
Supplying and fixing in position holding down bolts with necessary lead Rough rubble dry packing for aprons and revetments.					Ls.	Ls -
upstream & down stream	4	10'0"	8'0"	1'0"	320 Cft or 350 Cft.	
other miscellaneous.					Ls.	Ls -
P.S. and Contingencies					Ls.	Ls -

R. Subbaraya Chetty
Supvr Gr. II
Mangalore 3/6/53.

L. A. Gaffoor
9/6/53
Asst Engr Gr.

P.W.D. V-39—17 205—20-1-53.

Data sheet to accompany the estimate for Construction of a foot Bridge across Madakin Toda in Belamala village

Quantity	Description of wor	Rate. Rs.	A.	P.	Per.	Amount. Rs.	A	P.	Total.
1000 Cft.	I Earth work excavation for foundations in all soils except rocks requiring blasting S.2.15-B	21	6	0	1000 Cft.	21	6	0	21.6.0
	II Cement Mortar 1:4								
100 Cft	Sand cost 5936A	2	8	0	100 Cft	2	8	0	
25 Cft	Cement cost 5942	87	8	0	25 Cft	87	8	0	
100 Cft	Sand lead 2 Fm lead	5	9	0	100 Cft	5	9	0	
25 Cft	Cement lead 4.4 MR	103	12	6	100 Cft	25	15	1	
100 Cft	Mixing mortar	4	8	0	100 Cft	4	8	0	
Ls	Sundries					0	3	11	
						126	4	0	126.4.0
	III Concrete Broken Stone in CM 1:4:8								
100 Cft	Hand broken Stone 1½"	23	0	0	100 Cft	23	0	0	
100 Cft	Stone lead 1½ F Ml	5	4	0	100 Cft	5	4	0	
50 Cft	Cement Mortar 1:4	126	4	0	100 Cft	63	2	0	
½ No	Mason 2 Nos	2	12	0	each	1	6	0	
5 Nos	Men Mazdoors	1	8	0	d-	7	8	0	
4 Nos	Woman Mazdoors	0	12	0	d-	3	0	0	
Ls	Sundries					0	4	0	
					Total	103	8	0	103.8.0
	III Random rubble masonry in CM 1:4								
110 Cft	Rough stone Cost	16	0	0	100 Cft	17	9	7	
110 Cft	Stone lead 1½ F Ml	5	4	0	100 Cft	5	12	3	
110 Cft	Cement Mortar 1:4	126	4	0	100 Cft	42	14	9	
34 Cft	Masons	2	12	0	each	13	12	0	
5 Nos	Men Mazdoors	1	8	0	d-	6	0	0	
4 Nos	Woman Mazdoors	0	12	0	d-	3	0	0	
4 Nos	Boys					0	3	3	
Ls	Sundries					4	4	0	
					Total	84	4	0	89.4.0
	IV Country wood thought as put up in large scantlings for beams								
1 Cft	Country wood	7	4	0	Cft	7	4	0	
½ No	Carpenter	3	6	0	each	1	11	0	
1 No	Men Mazdoors	1	8	0	d-	1	8	0	
Ls	Sundries, nails, screws etc					0	10	0	10 8/0
					Total	10	8	0	11 0/0

17

P.W.D. V-39—17 205—20-1-53.

Data sheet to accompany the estimate for _____

Quantity	Description of wor	Rate.	Per.	Amount.	Total.
		RS. A. P.		RS. A P.	
	(b) Country wood work in roof including cutting to required lengths, breadths and thicknesses, framing, fixing in position with all necessary iron work, nails, screws etc complete.				
1 Cbr	C. wood ———	7 0 0	Cbr	7 0 0	
½ No	Carpenter ———	3 6 0	each	1 11 0	
~~¼ No~~	~~Sawyer~~	~~2 12 0~~	~~each~~	~~0 11 0~~	
¼ No	Man Mazadoor	1 8 0	each	0 6 0	
LS	Sundries such as nails, screws etc Complete.			0 3 - 0 4 0	
				9 4 0	9-4-0
			Total	~~10 0 0~~	10-0-0
	(c) VI Tarring with hot Coal tar 2 coats 100 Sqft.				
8½ Ks	Coal Tar ———	0 4 0	Ks.	2 2 0	
1½ No	Man Mazadoor	1 8 0	each	2 4 0	
LS	Sundries, including brushes & fuel etc			0 6 0	
			Total	4 12 0	4 12/0
	VII Rough stone dry packing for aprons and revetments.				
180 Cft	Rough stone.	16 0 0	100 Cft	17 9 7	
110 Cft	Rough stone lead 1½ Fhaul.	5 4 0	100 Cft	5 12 5	
~~NO 1 NO~~ 3 ~~4 NOS~~ 2 NOS ~~4 NOS~~	wooden ———	3 0 0	each	3 0 0	
	Man Mazadoor	1 8 0	d -	~~6 4 0~~ 4 8 0	
	Woman Mazadoor	0 12 0	d -	~~3 0 0~~ 1 8 0	
LS	Sundries. ———			0 2 0	
			For	~~35 8 0~~ 32 8 0	32-8-0 ~~35 8/0~~

Lead Statement

Rough Stone, Broken Stone, 1½ F Hd load.

Sand 2 F Hd load

Cement = 44 MR. Mangalore.

Wood locally.

Certified that the ~~lead~~ and other particulars furnished are correct to the best of my knowledge and enquiry.

R Subbarayacharya

Supdg Engr

21/13

Abstract Estimate.

C.P. 150. (2).

Quantity. (1)	Description of work. (2)	Item number in the schedule of rates. (3)	Rate. (4) Rs.	A.	P.	Per (5)	Total. (6) Rs.	A.	P.	Amount. (7) Rs.	A.	P.
1000 Cft.	Earth work excavation for foundations in all soils except rock requiring blasting		21	6	0	1000 Cft.	21	0	0	21		
100 Cft.	III Concrete hand broken stone 1½" B.S. gauge in C.M. 1:4:8		103	8	0	100 Cft.	104	0	0	104		
~~440~~ 393 Cft.	III Rowdam rubble in C.M. 1:4		~~89~~ 89	~~4~~ 4	0	100 Cft.	~~462~~ 393	0	0	393		
	IV Country wood scaffolding put up.		10	8	-	Cft.	~~154~~	0	0	147		
14 Cft.	(a) Large scantlings.		~~10~~ 9	~~0~~ 4	0	Cft.	~~230~~	0	0	213		
23 Cft.	(b) Small scantlings											
300 Sft.	V Tarring wood hot coal tar 2 coats		4	12	0	100 Sft.	14	0	0	14		
Ls	VI Supplying and fixing in position holding down bolts with necessary bolts & plates.						20	0	0	20		
350 Cft.	VII Rough stone dry packing for aprons and revetments		32	8	-	100 Cft.	124	0	0	114		
							71	-	-	86		
							~~80~~ 110	0	0	28		
Ls	VIII Other items as plastering, pipe steps, spikes for decking etc											
Ls	IX P.S. ~~on~~ for works at 2½%						~~1200~~ 1200	0	0	1140		
							1200					

Supervision charges at 5 per cent.

Grand total, Estimate -- Rs. ~~1200~~ 1250 1140

Divisional officer (or other countersigning officer to be named).

Sanctioned for 19 -19 .

L. A. Campion
9/6/13

Collector or other sanctioning officer (to be named). A.E. CP

Signature and designation of the officer submitting this estimate.

S. P. Gubbay Surveyor & Asst Charge
S.P. CP 5/6 May 1913

Tahsildar or other officer (to be named).

Specification.

C.F. 150 (2)—342,006—24-10-51.

District

South Kanara.

Taluk

Karkal.

Village No.

Belamala.

Name of Work No.

Construction of a foot-bridge across Madaku Gutt in Belamala Village

ESTIMATE ABSTRACT.

Budget head

Main head

Sub-head

Amount of estimate

Rs ~~1250~~ 1140/-

Sanction number and date

To be carried out by

Community Proj

Estimated cost Rs 1140/-
Cost of Contribution at 25% Rs 285/-
Amount of Sanction Rs 855/-

Sanctioned for Rs 855/-
(Rupees Eight hundred and fifty five only)

O/C ~~W~~ 13/7
for D.C.P
Rs 10/7
10-7-53
9/123/55

Pub(CP.Audit) Dept

(C No 20766/53) Sub- Community Projects- South Kanara Area- Communications
Construction of a foot bridge at Hadku in Belmon Village - Estimate

Ref- From the PEO. Mangalore - Rly C No 1552/53-B dated 26-6-53

Please see the letter from the PEO. Mangalore at ref. The PEO encloses an estimate for Rs. 1250 for the Construction of a footbridge at Hadku in Belmon Village. The work lies in Block III of the project area and has been approved by the Project Advisory Committee.

The proposal is to construct a foot bridge of 14 ft single Span across the Stream at the locality called Hadku in Belmon Village. Two abutments of random rubble masonry of 9ft in height with carry the wooden decking supported by 2 wooden beames of 7"x9" section. The abutments will be founded on hard gravel which is available within 3 feet below deep bed level of the Stream. This work is reported to be beneficial to the numerous School children who have their School across the stream and to numerous villagers in pursuit of their avocations.

The estimated cost has been cut down to Rs 1140 due to slight revision in rates. The amount to be sanctioned is 75% of this or Rs 855. The remaining balance fourth of the cost will be the Contribution by the beneficiaries

The Project estimate provides for the Construction of 33 footbridges at an expenditure of Rs 57,000. 20 foot bridges have been sanctioned for execution at an expenditure of Rs 40,412. This expenditure of Rs 855/- asked for, is below the average cost indicated in the project estimate ($\frac{57000}{33}$) and the work may therefore be sanctioned

A draft order is put up for approval. The estimate may also be Countersigned

[Sd/- Addl Secy to Govt MS No 1852 d. 14.7.53.]